

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Jindrich Cinatl *et al.*

Serial No.: 10/559,495

Filed: May 23, 2006

For: GLYCYRRHIZIN OR DERIVATIVES
THEREOF FOR TREATING OR
PREVENTING SEVERE ACUTE
RESPIRATORY SYNDROME (SARS)

Group Art Unit: 1614

Examiner: Unknown

Atty. Dkt. No.: SONN:086US

Confirmation No.: 8717

CERTIFICATE OF ELECTRONIC SUBMISSION

DATE OF SUBMISSION: February 7, 2007

INFORMATION DISCLOSURE STATEMENT

MS AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.

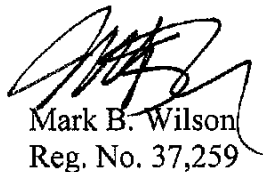
In accordance with 37 C.F.R. §§ 1.97(g), (h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to

be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The present Information Disclosure Statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R. § 1.97(b). No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/SONN:086US.

Applicants respectfully request that the listed documents be made of record in the present case.

Respectfully submitted,



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Date: February 7, 2007

Form PTO-1449 (modified)		Atty. Docket No. SONN:086US	Serial No. 10/559,495
List of Patents and Publications for Applicant's INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant Jindrich Cinatl <i>et al.</i>	
		Filing Date: May 23, 2006	Group: 1614
U.S. Patent Documents <i>See Page 1</i>	Foreign Patent Documents <i>See Page 1</i>	Other Art <i>See Page 1-2</i>	

U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A1	5,019,495	05/28/91	Shanbrom	435	1.1	11/07/89

Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Language
	B1	EP 0312222	04/19/89	Europe	English
	B2	EP 0518533	12/16/92	Europe	English
	B3	JP 04-128237	04/28/92	Japan	Japanese (English Abstract)
	B4	RU 2024542	12/15/94	Russia	Russian

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C1	Baltina <i>et al.</i> , "Transformation of Glycyrrhizic Acid. VII. Synthesis of Triterpene Glycopeptides Containing Alkyl Esters of L-Amino Acids," <i>Chemistry of Natural Compounds</i> , 30:238-244, 1994.
	C2	Baltina <i>et al.</i> , "Transformations of Glycyrrhizic Acid. X. Synthesis of New Esters," <i>Russian Journal of Org. Chem.</i> , 30:1705-1711, 1994.
	C3	Baltina <i>et al.</i> , "Transformations of Glycyrrhizic Acid VIII. Synthesis of Immunomodulating Glycopeptides Using tert-Butyl Esters of Amino Acids," <i>Russian J. Bioorg. Chem.</i> , 20:778-784, 1994.
	C4	Baltina, "Chemical Modification of Glycyrrhizic Acid As A Route to New Bioactive Compounds for Medicine," <i>Current Medicinal Chemistry</i> , 10:155-171, 2003.
	C5	Briolant <i>et al.</i> , "In vitro inhibition of Chikungunya and Semliki Forest viruses replication by antiviral compounds: Synergistic effect of interferon-alpha and ribavirin combination," <i>Antiviral Research</i> , 61: 111-117, 2004.
	C6	Cinatl <i>et al.</i> , "Glycyrrhizin, an active component of liquorice roots, and replication of SARS-associated coronavirus," <i>Lancet</i> , 361:2045-2046, 2003.

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EXAMINER:**DATE CONSIDERED:**

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C7	Crance <i>et al.</i> , "Interferon, ribavirin, 6-azauridine and glycyrrhizin: Antiviral compounds active against pathogenic flaviviruses," <i>Antiviral Research</i> , 58:73-79, 2003.
	C8	Database Caplus, Database Accession no. 1995:863060.
	C9	Database Caplus, Database accession no. 1995:892869.
	C10	Drosten <i>et al.</i> , "Identification of a Novel Coronavirus in Patients with Severe Acute Respiratory Syndrome," <i>New Engl. J. Med.</i> , 348:1967-1976, 2003.
	C11	Jeong and Kim, "Induction of inducible nitric oxide synthase expression by 18beta-glycyrrhetic acid in macrophages," <i>FEBS Lett.</i> , 513:208-212, 2002.
	C12	Kondratenko <i>et al.</i> , "Synthesis and Immunostimulating Activity of Cysteine-Containing Derivatives of Glycyrrhizic Acid," <i>Russian J. Bioorg. Chem.</i> , 30:53-59, 2004.
	C13	Kondratenko <i>et al.</i> , "The Synthesis and Antiviral Activity of Glycyrrhizic Acid Conjugates with alpha-D-Glucosamine and Some Glycosylamines," <i>Russian J. Bioorg. Chem.</i> , 30:275-282, 2004.
	C14	Perlman, "Pathogenesis of Coronavirus-Induced Infections: Review of Pathological and Immunological Aspects," <i>Adv. Exp. Med. Biol.</i> , 440-503-513, 1998.
	C15	Utsunomiya <i>et al.</i> , "Glycyrrhizin, an Active Component of Licorice Roots, Reduces Morbidity and Mortality of Mice Infected with Lethal Doses of Influenza Virus," <i>Antimicrobial Agents and Chemotherapy</i> , 41:551-556, 1996.

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